

[POWER COMMANDER V]

Kawasaki Vulcan Models

1999-2005 VN1500 Drifter
2000-2004 VN1500 Nomad
2000-2008 VN1500 Classic
2002-2008 Mean Streak (1500 & 1600)

Installation Instructions



PARTS LIST

- 1 Power Commander
- 1 USB Cable
- 1 Installation Guide
- 2 Power Commander Decals
- 2 Dynojet Decals
- 2 Velcro strips
- 1 Alcohol swab
- 1 Posi-tap
- 1 Ground wire

**THE IGNITION MUST BE TURNED
OFF BEFORE INSTALLATION!**

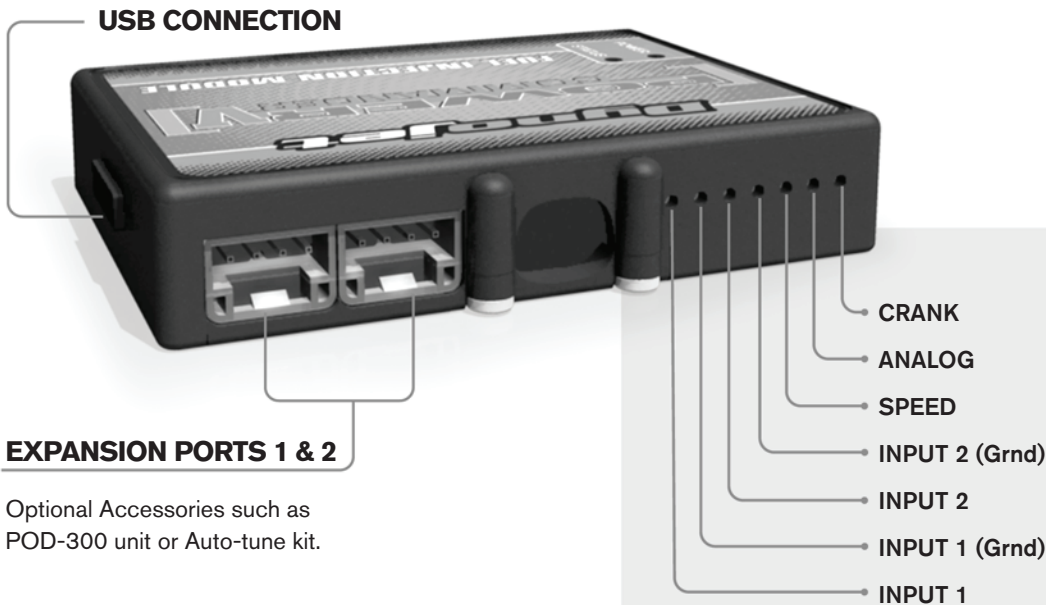
THE LATEST POWER COMMANDER
SOFTWARE AND MAP FILES CAN BE
DOWNLOADED FROM OUR WEB SITE AT:
www.powercommander.com

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION

Dynojet

2191 Mendenhall Drive North Las Vegas, NV 89081 (800) 992-4993 www.powercommander.com

POWER COMMANDER V INPUT ACCESSORY GUIDE



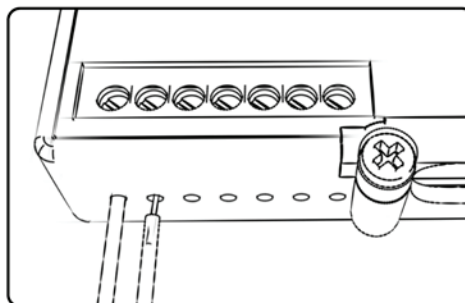
EXPANSION PORTS 1 & 2

Optional Accessories such as POD-300 unit or Auto-tune kit.

Wire connections:

To input wires into the PCV first remove the rubber plug on the backside of the unit and loosen the screw for the corresponding input. Using a 22-24 gauge wire strip about 10mm from its end. Push the wire into the hole of the PCV until it stops and then tighten the screw. Make sure to reinstall the rubber plug.

NOTE: If you tin the wires with solder it will make inserting them easier.



ACCESSORY INPUTS

Map -

(Input 1 or 2) The PCV has the ability to hold 2 different base maps. You can switch on the fly between these two base maps when you hook up a switch to the MAP inputs. You can use any open/close type switch. The polarity of the wires is not important. When using the Autotune kit one position will hold a base map and the other position will let you activate the learning mode. When the switch is "CLOSED" Autotune will be activated. (Set to Switch Input #1 by default.)

Shifter-

(Input 1 or 2) These inputs are for use with the Dynojet quickshifter. Insert the wires from the Dynojet quickshifter into the SHIFTER inputs. The polarity of the wires is not important. (Set to Switch Input #2 by default.)

Speed-

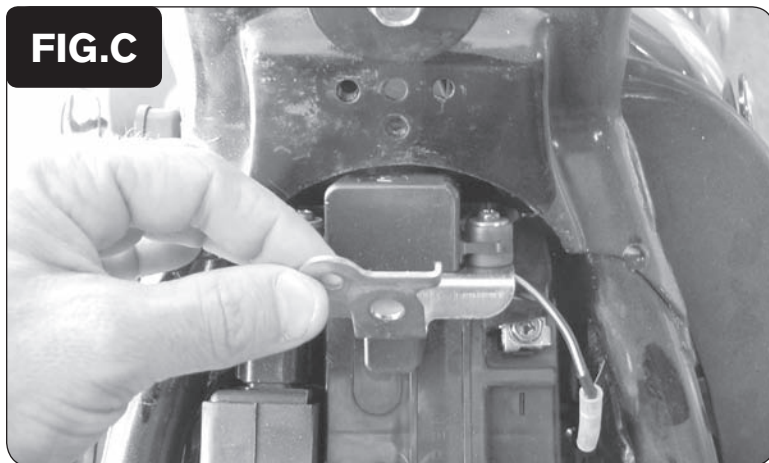
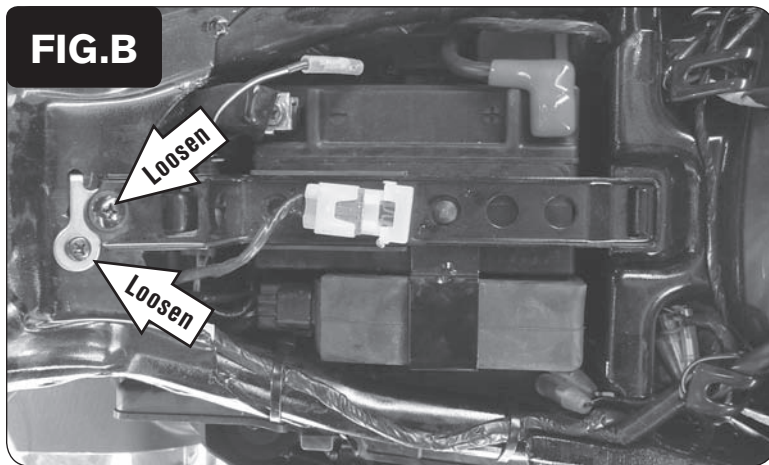
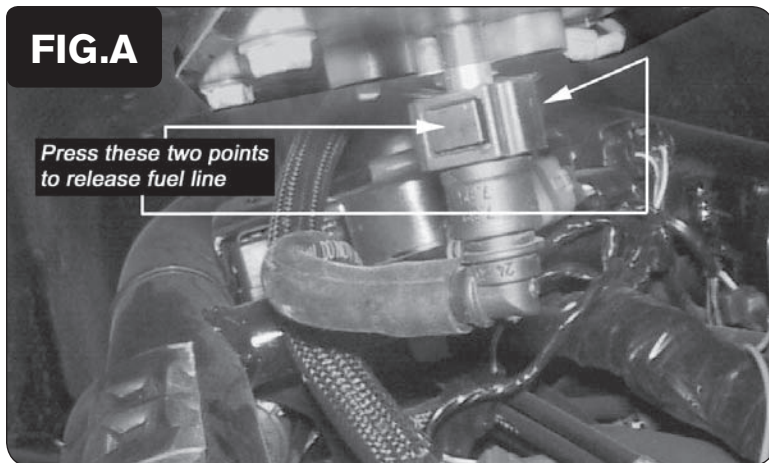
If your application has a speed sensor then you can tap into the signal side of the sensor and run a wire into this input. This will allow you to calculate gear position in the Control Center Software. Once gear position is setup you can alter your map based on gear position and setup gear dependent kill times when using a quickshifter.

Analog-

This input is for a 0-5v signal such as engine temp, boost, etc. Once this input is established you can alter your fuel curve based on this input in the control center software.

Crank-

Do **NOT** connect anything to this port unless instructed to do so by Dynojet. It is used to transfer crank trigger data from one module to another.



- 1 Remove the left side cover and the main seat.
- 2 Remove the speedometer assembly.
- 3 Remove the fuel tank.

To remove the fuel line squeeze the sides of the connector (Fig. A).

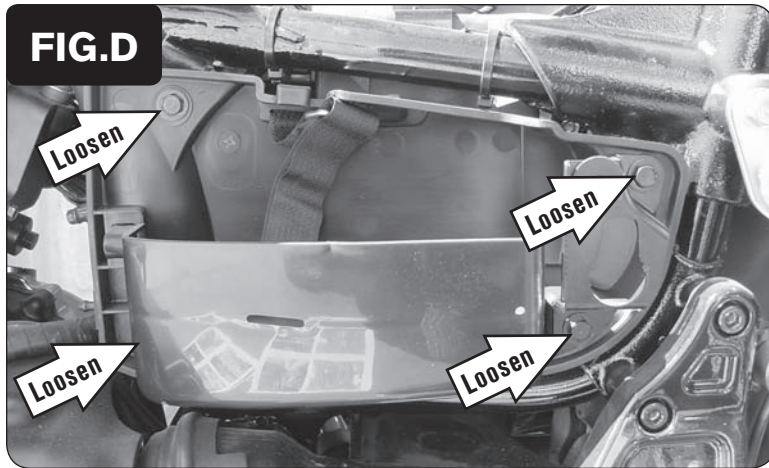
Disconnect the two electrical connectors.

Disconnect vent lines.

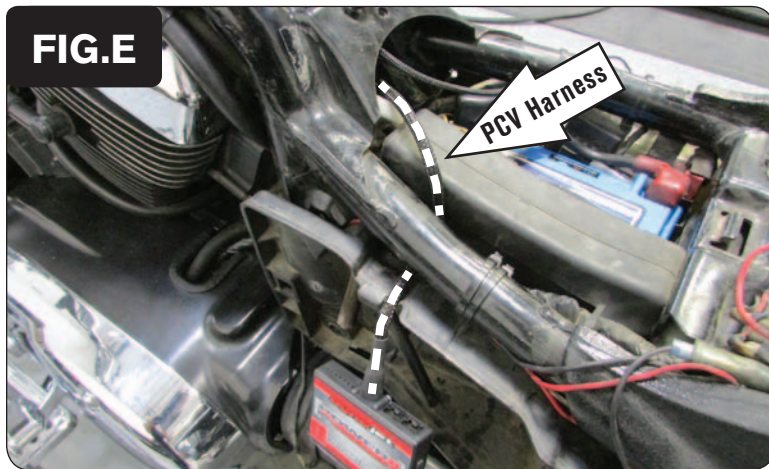
- 4 Remove the battery/ECU bracket (Fig. B).

- 5 Unbolt and move the tip over switch out of the way (Fig. C).

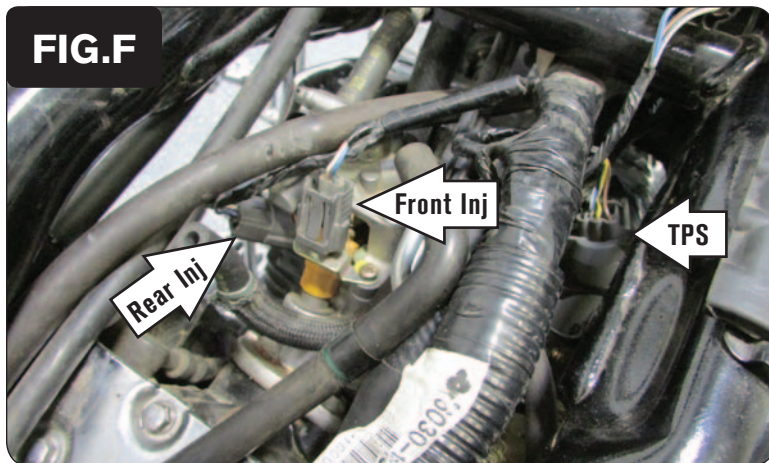
Steps 4 and 5 only need to be done on the VN1500 Drifter, Nomad, and Classic models. These steps can be excluded on Mean Streak models.



- 6 Loosen the four bolts holding the plastic tray on the left side of the bike (under the left side cover) (Fig. D).



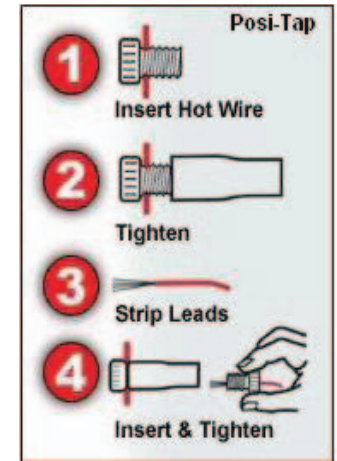
- 7 Route the PCV wiring harness between the plastic tray and the left frame rail (Fig. E). Continue routing beneath the frame/lower fuel tank mount and towards the throttle body.



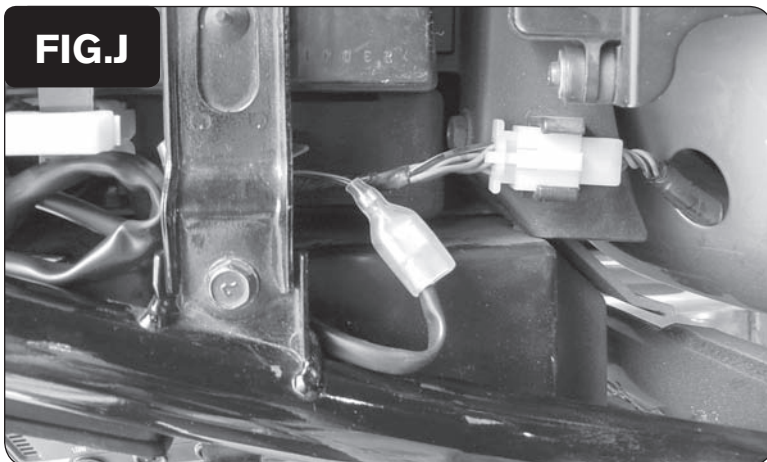
- 8 At the throttle body, unplug the front and rear cylinder Fuel Injectors and the Throttle Position Sensor (Fig. F).



- 9 Use the supplied Posi-tap to attach the GREY wire of the PCV wiring harness to the stock YELLOW/WHITE wire of the TPS connector. Plug the TPS connector back on to the TPS (Fig G).

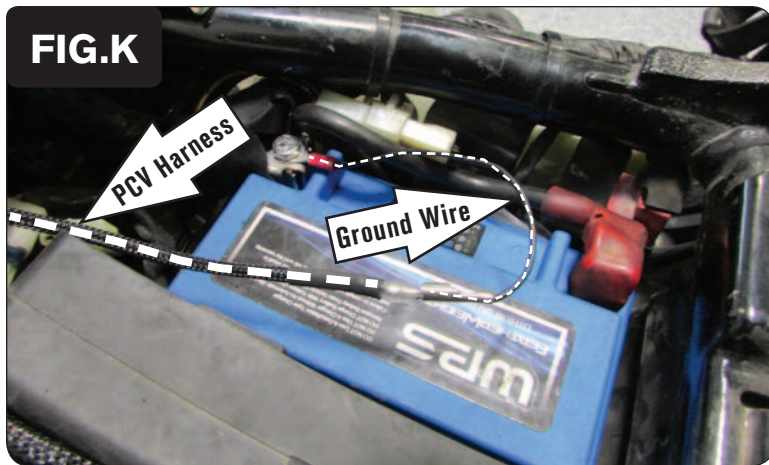


- 10 Plug the pair of PCV leads with ORANGE colored wires in-line of the Front Cylinder Fuel Injector and the stock wiring harness.
- 11 Plug the pair of PCV leads with YELLOW colored wires in-line of the Rear Cylinder Fuel Injector and the stock wiring harness (Fig. H).
- 12 Reinstall the fuel tank, speedometer assembly, and the tip over switch.



- 13 On Mean Streak models only, plug the PCV ground wire with the male bullet connector into the stock auxiliary ground connector. The stock auxiliary ground connector is found next to the battery. It has a double female bullet connector and a BLACK/YELLOW wire.

You can omit the supplied Ground Wire on Mean Streak models. It is only used on VN1500 Drifter, Nomad, and Classic models.



- 14 On VN1500 Drifter, Nomad, and Classic models, secure the supplied Ground Wire to the negative (-) terminal of the bike's battery. Plug the PCV wiring harness into the Ground Wire (Fig. K).



- 15 Use the supplied Velcro to secure the PCV module in the tray behind the left side cover (Fig. L). Clean surfaces with the supplied alcohol swab before attaching the Velcro.

California models may have a charcoal canister stored in this area. If so, the PCV module can be secured at the front of the charcoal canister.

- 16 Reinstall the battery bracket, seat, and side cover.